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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,048	06/22/2001	Yukihisa Takeuchi	791_151	6969

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[REDACTED] EXAMINER

BUDD, MARK OSBORNE

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

2834

DATE MAILED: 07/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	Applicant(s)
888048	Takuchi et al
Examiner M. Budo	Group Art Unit 2834

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

6-10-07

- Responsive to communication(s) filed on _____
- This action is FINAL.
- Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- Claim(s) 1-14 1-10 and 12-14 is/are pending in the application.
Of the above claim(s) 12 and 13 is/are withdrawn from consideration.
- Claim(s) 1-10 and 14 is/are allowed.
- Claim(s) 1-10 and 14 is/are rejected.
- Claim(s) _____ is/are objected to.
- Claim(s) _____ are subject to restriction or election requirement

Application Papers

- The proposed drawing correction, filed on _____ is approved disapproved.
- The drawing(s) filed on _____ is/are objected to by the Examiner
- The specification is objected to by the Examiner.
- The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).

All Some* None of the:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. _____.
- Copies of the certified copies of the priority documents have been received
in this national stage application from the International Bureau (PCT Rule 17.2(a))

*Certified copies not received: _____

Attachment(s)

- Information Disclosure Statement(s), PTO-1449, Paper No(s). _____ Interview Summary, PTO-413
- Notice of Reference(s) Cited, PTO-892 Notice of Informal Patent Application, PTO-152
- Notice of Draftsperson's Patent Drawing Review, PTO-948 Other _____

Office Action Summary

Art Unit: 2834

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2 and 14 are rejected under 35 U.S.C. 102(a) as being anticipated by Nakazawa, Ushioda, Shigemura or Hiraishi.

Each reference teaches a comb-like structure with piezoelectric teeth being driven by fields parallel to the poling direction and ejecting liquid from a space formed between two adjacent piezo elements.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hirashi, Shigemura or Ushioda.

Each reference teaches the claimed structure except for various specific dimensions. However, it has long been held that optimizing a known device via selection of specific dimensions or parameters (e.g. thru routine experimentation) is within the skill expected of the

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routineer. Therefore determination of specific optimum dimensions for any specific application of Ushioda, Hiraishi or Shigemura would have been obvious to one of ordinary skill in the art.

Further cited of interest are Oikawa, Bowen (050), and Bowen (818).

Applicants general traversal of the restriction requirement is noted. However, applicant has not pointed out any specific error in the holding. Further, non coincident search areas are involved, thus there is a burden on the PTO. Consequently the requirement is hereby repeated and made final.

Budd/ds

07/01/02



MARK O. BUDD
PRIMARY EXAMINER
ART UNIT 212